

TITLE: Explanatory Report for PDISP 11188-3 for Common Upper Layer Requirements - Part 3: Minimal OSI upper layer facilities

SOURCE: OIW
Laura Emmons

DATE:

STATUS: Draft report for information to the Regional OSI/OSE workshops and for submission to SGFS together with PDISP 11188-3

a) General Profile Information

1) Profile Identifier

This profile does not specify a full A-profile, and therefore has no place within the taxonomy of TR 10000-2.

2) Profile Title

Common Upper Layer Requirements — Part 3: Minimal OSI upper layer facilities

3) Submitting Organization

Open Systems Environmental Implementor's Workshop (OIW)

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4) Date of notification to SGFS

5) Maintenance Commitment

The OIW ULSIG will ensure on behalf of the three regional OSI/OSE workshops that the maintenance of PDISP 11188-3 will be done. James Quigley is the project manager.

b) Base Standards Referenced

1) List of ISO/IEC standards, technical reports and CCITT recommendations

Editor's note: These references will be updated in the course of DISP to ISP progression.

1.1 Identical Recommendations | International Standards

- ITU-T Recommendation X.227 (1994) | ISO/IEC 8650: 1994, *Information technology- Open Systems Interconnection-Protocol specification for the Association Control Service Element.*
- ITU-T Recommendation X.217 (1994) | ISO/IEC 8649: 1993, *Information technology- Open Systems Interconnection-Service definition for the Association Control Service Element.*
- ITU-T Recommendation X.200 (1994) | ISO/IEC 7498-1: 1994, *Information technology-Open Systems Interconnection-Part 1: Basic Reference Model.*
- ITU-T Recommendation X.225 (1994) | ISO/IEC 8327-1:1994, *Information technology-Open Systems Interconnection-Part 1: Connection oriented session protocol specification.*
- ITU-T Recommendation X.215 (1994) | ISO/IEC 8326: 1987, *Information technology- Open Systems Interconnection-Basic connection-oriented session service definition.*
- *ITU-T Recommendation X.226 (1994) | ISO/IEC 8823-1:1994, Information technology-Open Systems Interconnection-Part 1: Connection oriented presentation protocol specification.*
- ITU-T Recommendation X.216 (1994) | ISO/IEC 8822-1:1988,

Information technology-Open Systems Interconnection-Basic connection-oriented presentation service definition.

– ITU-T Recommendation X.??? (1994) | ISO/IEC 8825-1:1994, *Information technology-Open Systems Interconnection-Abstract syntax notation 1: Basic encoding rules.*

1.2 Paired Recommendations | International Standards equivalent in technical content

– CCITT Recommendation X.210 (1988), *OSI Layer Service Definition Conventions for CCITT applications.*

– ISO/TR 8509:1986, *OSI Layer Service Definition Conventions.*

– CCITT Recommendation X.214 (1988), *Transport service definition for Open Systems Interconnection for CCITT applications.*

– ISO 8072:1986, *Information technology-Open Systems Interconnection-Transport service definition.*

1.3 Additional references

– ISO 7498-3:1988, *Information technology-Open Systems Interconnection-Basic Reference Model-Part 3: Naming and Addressing.*

– CCITT Recommendation X.650 (1992), *Open Systems Interconnection (OSI)-Basic Reference Model for naming and addressing.*

– ISO/IEC 8327-2:1994, *Information technology- Open Systems Interconnection-Connection oriented session protocol specification-Part 2: Protocol Implementation Conformance Statement (PICS) Proforma.*

– ISO/IEC 8650-2: 1994, *Information technology-Open Systems Interconnection-Protocol specification for the Association Control Service Element-Part 2: Protocol Implementation Conformance Statement (PICS) Proforma .*

– ISO/IEC 8823-2:1994, *Information technology-Open Systems Interconnection-Connection-oriented Presentation Protocol Specification-Part 2: Protocol Implementation Conformance Statement*

(PICS) Proforma.

- ISO/IEC 9545:1993, *Information technology-Open Systems Interconnection-Application Layer Structure*
- ISO/IEC TR 10000-1:1992, *Information technology-Framework and taxonomy of International Standardized Profiles-Part 1: Framework.*
- ISO/IEC TR 10000-2:1992, *Information technology-Framework and taxonomy of OSI profiles-Part 2: Taxonomy of Profiles.*
- ISO/IEC ISP 11188-1:1994¹, *Information technology-International Standardized Profile-Common upper layer requirements-Part 1: Basic connection-oriented requirements.*

2) TR 10000-1 Conformance

The documentation requirements of ISO/IEC TR 10000-1 on conformance are not met.

The Profile Requirements List of PDISP 11188-3 consist of several tables which specify the profile requirements. They currently refer to the DIS versions of the PICS proforma of the base standards of the ACSE, Presentation, and Session service definitions. A proforma for determining compliance to this profile is presented in Annex D.

3) Aspects of non-compliance with standards

No such aspects.

4) Amendments, corrigenda to base standards

None in addition to clause 3 of PDISP 11188-3 (see also editor's note above).

c) Registration requirements

None

¹Currently at level of draft international standardized profile

d) Other publications

Draft IETF RFC "ThinOSI upper layers cookbook", P. Furniss (London: 1993)

"X/Open Transport Interface (XTI) version 2 X/Open CAE specification C318 (Appendix H , Minimum OSI Functionality", X/Open Company Limited, Apex Plaza, Sorbury Road, Reading Berkshire, RG1 1AX, UK)

e) Profile purpose

1) Executive Summary

ISO/IEC ISP 11188 as a multi-part ISP specifies general requirements on the use of OSI upper layer protocols by A-profiles. These are identified as "Common Upper Layer Requirements".

The parts of this multi-part ISP do not contain the definition of any complete profiles, but can be referenced normatively by other ISPs which do define A-profiles. In addition, a referencing ISP may specify further requirements on the protocols, provided it does not contradict this ISP.

The purpose of this multi-part ISP is to provide common text for ISPs or other referencing specifications which specify A-profiles. In addition to simplifying their drafting, it also facilitates the common implementation of the protocols for their use in different A-profile contexts.

This part of ISO/IEC ISP 11188 specifies a profile of the minimal OSI facilities to support basic connection-oriented communication applications. These facilities are comprised of a subset of the facilities defined by the ACSE, Presentation and Session service definitions.

2) Relationship to other ISPs

PDISP 11188-3 is specified as a common basis to be referenced and used by application ISPs for A-profiles, e.g. ISPs for the AFT or AOM profiles. This profile would be referenced in place of PDISP 11188-1 Common upper layer requirements: Basic connection-oriented requirements.

f) PDISP development process

1) Editor: OSI ULSIG (Laura Emmons)

History:

Draft 1 OIW/ULSIG-33-03/93 First OIW draft of mOSI ISP written in ISP format and based on the CULR-1. Circulated for comments to the regional workshops. Added as annex to working Implementor's Agreements of the OIW.

Draft 2 OIW/ULSIG-33-06/93 Revisions made after comments were obtained from OIW and EWOS.

Draft 3 OIW/ULSIG-33-09/93 Further revisions made after comments were obtained from OIW and EWOS.

Draft 4 OIW/ULSIG-33-12/93 Further revisions were made after issues were raised by OIW and EWOS.

Draft 5 OIW/ULSIG-33-03/94 Revisions were made to the definitions of mandatory, optionak, and out-of-scope in clause 2, table 1, and annexes A, B, and C after issues were raised by EWOS and the OIW MMS SIG. Other revisions were made in response to comments from EWOS TLG.

2) Degree of Openess and Harmonization

The working drafts of PDISP 11188-3 have been circulated to all three regional workshops.

3) Joint planning operation

The PDISP was developed under the coordination of RWS-CC.

g) PDISP content and format

1) TR 10000-1-1 Requirements

These requirements have/have not been met.

2) Divergence from TR 10000

3) Multi-part structure

This PDISP is structured as a multi-part ISP to meet the requirements of various A-profiles.

Additional parts:

- Draft for PDISP 11188-1: Common upper layer requirements -
Part 1: Basic connection-oriented requirements
- Draft for PDISP 11188-2: Common upper layer requirements -
Part 2: Basic connection-oriented requirements for ROSE based profiles

h) Any other information

None